

I. Amendments to the Specification

Please amend the two paragraphs beginning at page 6 line 14 as follows:

A' In a present embodiment, telephone lines 128 are a traditional set of twisted-pair of copper wires now commonly used for POTS telephone lines, which in turn connect a pair of terminals 132, (which in a present embodiment are POTS telephones) to switch 120. Telephone lines 128 each connect to subscriber-line interfaces ~~136~~140, which are mounted within a line-card rack 136 integral with switch 120.

(In other embodiments of the invention, telephone lines 128 can be any type of link that connects to a corresponding type of terminal 132. For example, lines 128 can be a wireless link, based on CDMA, OFDM, TDMA or the like, and terminals 132 can be mobile, fixed or nomadic wireless telephones with appropriate transceivers to communicate over lines 128. In a wireless system, subscriber-line interfaces ~~136~~ 140 would thus be wireless transceivers within switch 120, and notionally, switch 120 would be a wireless base station. Other types of links that could be used instead of lines 128 will occur to those of skill in the art.)

Please amend the paragraph beginning at page 7 line 9 as follows:

A2
Subscriber agents 154a and 154b, however, are not uniquely associated with any telephone line 128. Instead, subscriber agents 154a and 154b are uniquely associated with a subscriber, and thus each subscriber agent ~~143~~ 154 typically includes the subscriber's telephone number and a list of calling features to which the subscriber subscribes. Subscriber agents 154 also include a terminal-identifier ~~which~~ that associates the subscriber agent 154 with one (or more) of the terminal agents 152. As will be explained in greater detail below, the terminal-identifier can be changed according to the subscriber's wishes.

Please amend the paragraph beginning at page 7 line 22 as follows:

A3
While Figure 1 shows switch 120 in terms of its hardware structure, in order to further explain the present embodiment it is useful to represent switch 120 in terms of its software structure, as shown in Figure 2. Referring now to Figure 2, two switches 120₁ and 120₂, identical to switch 120, are represented in terms of ~~the~~ their software structure. Telephone lines 128a ...

128d each connect to switch 120 through their respective terminal agent 152a ... 152d.

Please amend the paragraph beginning at page 8 line 10 as follows:

A4
It will now be understood that the present embodiment shown in Figure 2 behaves, in its current arrangement and from the perspective of subscribers, substantially the same as a prior art telephone central-office switch. However, in contrast to the prior art, the embodiment shown in Figure 2 can be dynamically configured to different arrangements to provide novel behaviors ~~behaviours~~. More specifically, the ~~terminal-agent~~ terminal-identifier of any subscriber agent 154a, 154b, 154c or 154d can be changed to point to one or more of terminal agents 152a, 152b, 152c or 152d.

Please amend the two paragraphs beginning at page 8 line 24 as follows:

A5
It will also be apparent that call-forwarding from one terminal 132 to another terminal 132 can be achieved simply by temporarily changing the terminal-identifier within a particular subscriber agent 154. For example, Figure ~~6~~ 4 shows switches 120 of Figure ~~[[4]]~~ 2, wherein the terminal-identifier of subscriber

AS
under
agent 154c has been changed to point to terminal agent 152d. Thus, incoming calls for the telephone number associated with subscriber agent 154c are now directed to telephone line 128d. Once the subscriber that owns subscriber agent 154c 'forwards' his phone from terminal agent 152c to terminal agent 152d, the subscriber can be physically present near terminal 132d and be able to receive all incoming calls and access all of the same calling features as if this subscriber was at terminal 132c.

It should also be noted that, according to the configuration in Figure [[6]] 4 subscriber agents 154c and 154d are both pointing to the same terminal agent 152d. According to this configuration, it can be desired to have subscriber agents 154c and 154d identify themselves to terminal agent 152d so that terminal agent 152d can use distinctive rings at terminal 132d to distinguish incoming calls for either subscriber agent 154c or 154d. Alternatively, if terminal 132d is equipped with a graphical display, then a message can be displayed thereon indicating which subscriber is receiving the incoming call.

Please amend the two paragraphs beginning at page 10 line 28 as follows:

AG
The exemplary explanation of operation of the embodiment continues with reference to Figure [[9]] 7, where Bill's subscriber agent 154a is shown pointing to terminal agent 152g,

thus directing Bill's incoming calls and Bill's set of calling features, to mobile telephone terminal 132g. Bill can use any suitable means to redirect his subscriber agent 154a from terminal agent 152a to terminal agent 152g, such as by using an IVR menu system from telephone terminal 132a that directs subscriber agent 154a to change its terminal-identifier from terminal agent 152a to terminal agent 152g, or using a web-browser interface (from any internet-ready device) that gives Bill the ability to access his subscriber agent 154a.

AC Accordingly, a caller dialing Bill's number "555-555-5555" will now be able to reach Bill at his mobile telephone terminal 132g.

Similarly, the incoming caller's telephone number will be displayed on mobile telephone terminal 132g, because Bill's subscriber agent 154a indicates that Bill is a subscriber to the caller-id calling feature.

The exemplary explanation of operation of the embodiment continues with reference to Figure [[10]] 8, where Bill's subscriber agent 154a is shown pointing to terminal agents 152e and 152f, thus directing Bill's incoming calls, and carrying Bill's set of calling features to terminals 132e and 132f. Again, Bill can use any suitable means to redirect his terminal agent 154a from terminal agent 152g to terminal agents 152e and 152f, such as by using an IVR menu system from telephone terminal 132g, or alternatively, by using a verification-procedure at either terminal 132e or 132f, such as typing a user-id and

password into computer terminal 132f, which effectively logs Bill into switch 120₃ and instantiates subscriber agent 154a therein.

AC
could
Accordingly, a caller dialing Bill's number "555-555-5555" will now be able to reach Bill at either rich-featured telephone terminal 132e, or at lap-top computer terminal 132f, giving Bill the option of a private call using terminal 132e, or a hands-free call using terminal 132f. Similarly, the incoming caller's telephone number will be displayed on terminal 132e and 132f because Bill's subscriber agent 154a indicates that Bill is a subscriber to the caller-id calling feature.
